Title (en)

NO-FEED-ROLL CORRUGATED BOARD OR PAPERBOARD SHEET FEEDER RETROFIT APPARATUS AND METHOD

Title (de)

VORRICHTUNG UND VERFAHREN ZUR NACHRÜSTUNG EINES WELLPAPPE- ODER PAPPEBOGENZUFÜHRERS OHNE EINZUGSWALZE

Title (fr)

APPAREIL ET PROCÉDÉ DE MODERNISATION D'UN ALIMENTATEUR DE FEUILLES DE CARTON OU DE FEUILLES DE CARTON ONDULÉ SANS ROULEAU D'ALIMENTATION

Publication

EP 3759039 A4 20220406 (EN)

Application

EP 19757236 A 20190226

Priority

- US 201862635373 P 20180226
- US 2019019574 W 20190226

Abstract (en)

[origin: WO2019165423A1] A self-contained no-feed-roll computer controlled corrugated board or paperboard sheet feeder apparatus (200) is configured to upgrade an installed corrugated board processing machine (e.g., 10) and includes a feed table surface (210) for boards (e.g., 2) having drive wheels (222 W, 224W, 226W) in an initial variable velocity zone (220) which drives the board in a first motion profile through a first vacuum zone, and a second velocity zone (230) which then drives the board in a second motion profile through a second vacuum zone Retrofittable sheet feeder (200) also includes a controller (300) configured to receive predetermined velocity signals from the host machine (10) and generate (i) a first initial variable velocity control signal for initial variable velocity zone (220) and (ii) a second velocity control signal for second velocity zone (230) in response.

IPC 8 full level

B65H 1/00 (2006.01); **B65H 3/00** (2006.01); **B65H 3/06** (2006.01); **B65H 3/08** (2006.01); **B65H 5/00** (2006.01); **B65H 5/06** (2006.01); **B65H 7/18** (2006.01)

CPC (source: EP US)

B31B 50/042 (2017.08 - EP US); **B31B 50/064** (2017.08 - EP US); **B31B 50/07** (2017.08 - EP US); **B65H 3/0607** (2013.01 - EP); **B65H 3/063** (2013.01 - EP US); **B65H 3/0669** (2013.01 - EP); **B65H 3/0692** (2013.01 - EP); **B65H 3/126** (2013.01 - US); **B65H 5/021** (2013.01 - US); **B65H 5/066** (2013.01 - EP); **B65H 7/18** (2013.01 - EP); B31B 50/20 (2017.08 - EP); B31B 50/88 (2017.08 - EP); B65H 2403/481 (2013.01 - US); B65H 2403/50 (2013.01 - US); B65H 2404/15422 (2013.01 - EP); B65H 2406/30 (2013.01 - US); B65H 2406/3122 (2013.01 - EP); B65H 2513/10 (2013.01 - EP); B65H 2513/20 (2013.01 - EP); B65H 2515/32 (2013.01 - EP); B65H 2601/525 (2013.01 - EP); B65H 2601/61 (2013.01 - EP); B65H 2701/1764 (2013.01 - EP)

C-Set (source: EP)

1. B65H 2513/20 + B65H 2220/01
2. B65H 2515/32 + B65H 2220/02
3. B65H 2513/10 + B65H 2220/01

Citation (search report)

- [XAI] US 2017152117 A1 20170601 - TSUKASAKI MASAHIRO [JP]
- [XAI] US 5006042 A 19910409 - PARK MARCUS G [GB]
- [A] US 2016280484 A1 20160929 - BAUM THEODORE [US]
- [A] EP 3208219 A1 20170823 - MITSUBISHI HEAVY IND PRINTING [JP]
- See also references of WO 2019165423A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2019165423 A1 20190829; CN 112469648 A 20210309; CN 112469648 B 20230221; EP 3759039 A1 20210106; EP 3759039 A4 20220406; JP 2021514911 A 20210617; JP 7296977 B2 20230623; US 11897716 B2 20240213; US 2022063938 A1 20220303; US 2024002177 A9 20240104; US 2024158190 A1 20240516

DOCDB simple family (application)

US 2019019574 W 20190226; CN 201980028159 A 20190226; EP 19757236 A 20190226; JP 2020544785 A 20190226; US 202017002538 A 20200825; US 202418418895 A 20240122